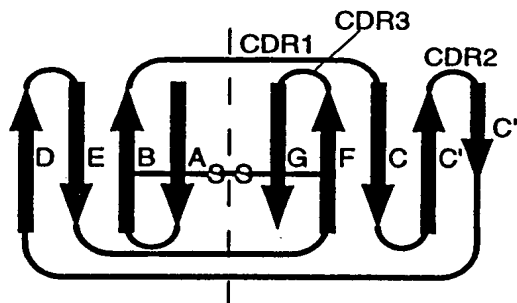


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FIG. 1A



Immunoglobulin VH

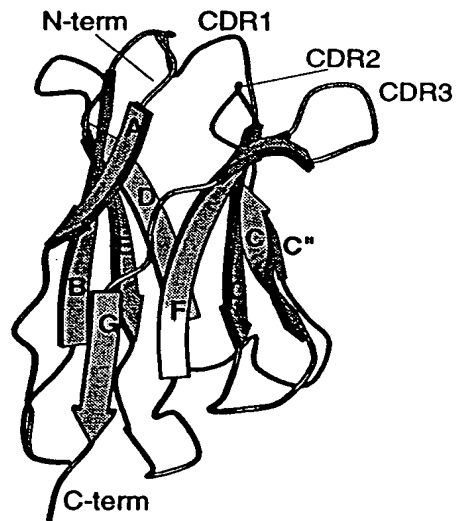
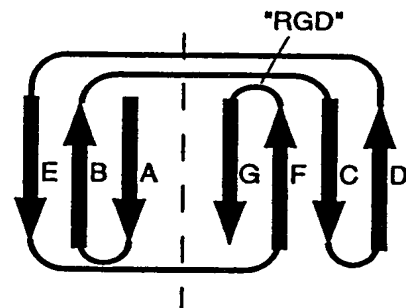


FIG. 1C

FIG. 1B



Fibronectin type III

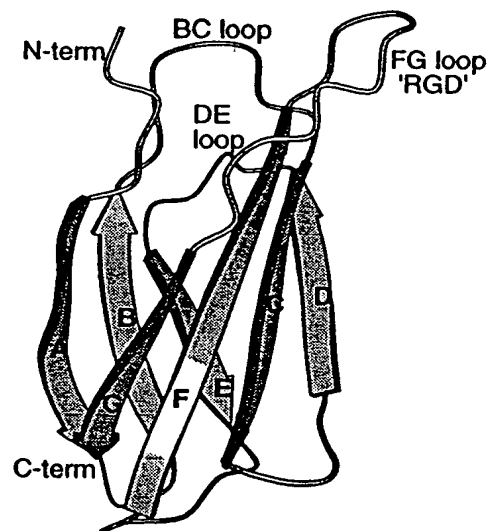
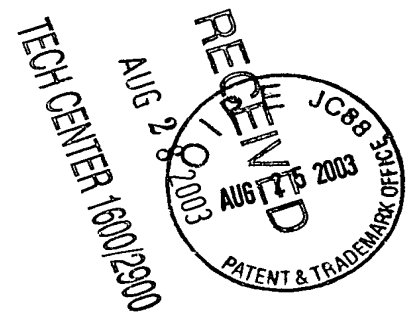


FIG. 1D



TITLE: ARTIFICIAL ANTIBODY POLYPEPTIDES

INVENTORS NAME: Shohei Koide

SERIAL NO.: 09/637,614

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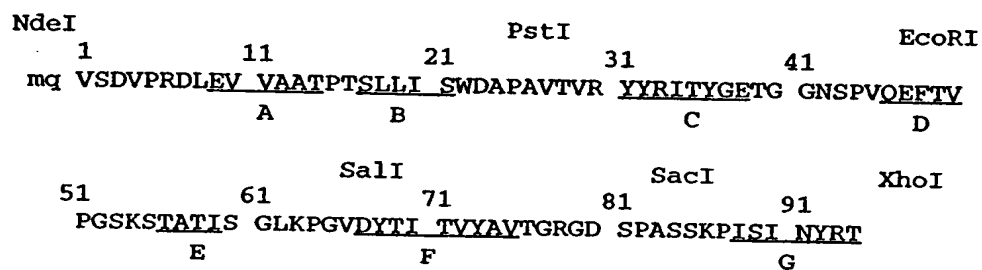


FIG. 2



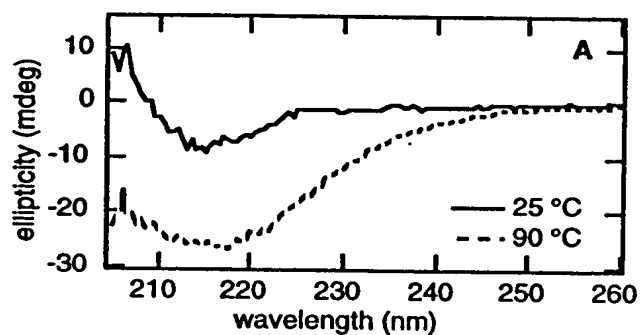


FIG. 3A

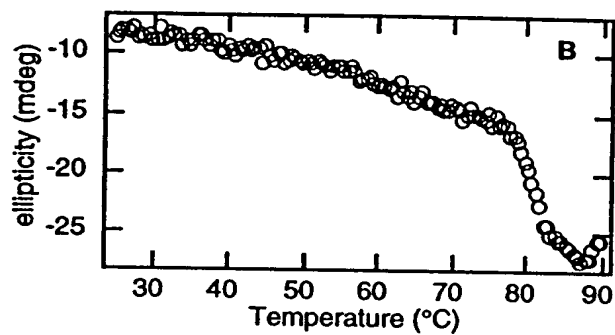


FIG. 3B



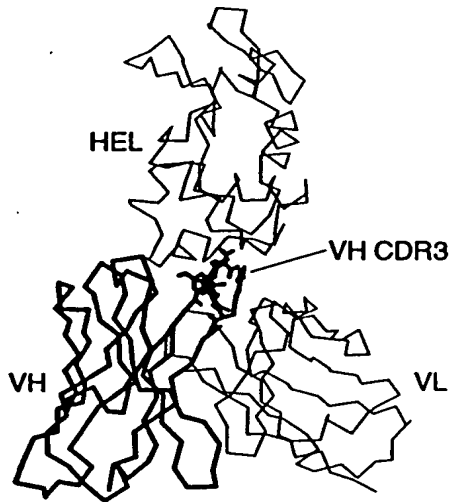


FIG. 4A

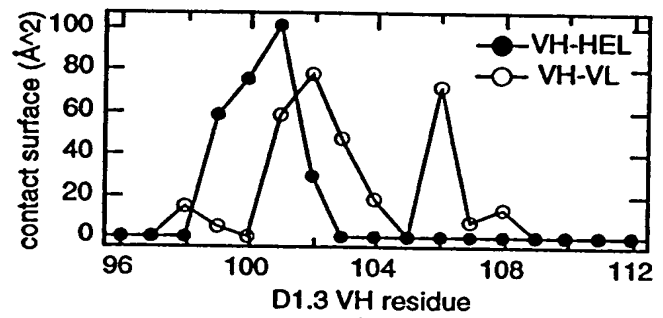


FIG. 4B

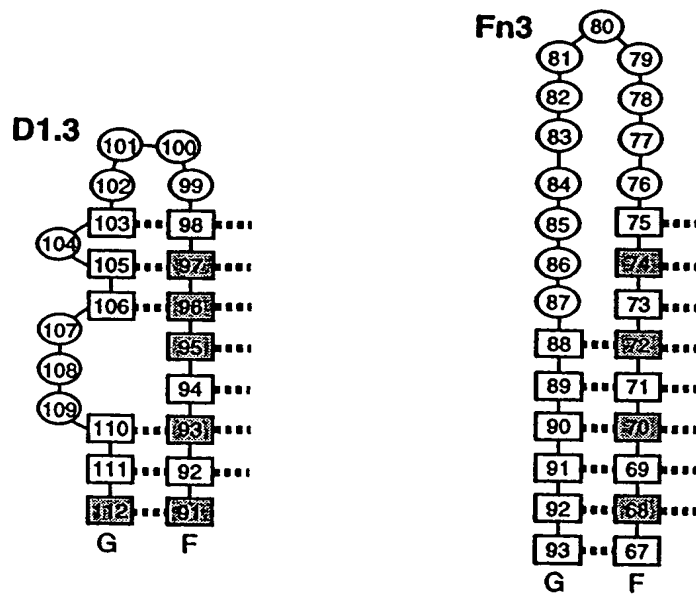


FIG. 4C

FIG. 4D



TITLE: ARTIFICIAL ANTIBODY POLYPEPTIDES

INVENTORS NAME: Shohei Koide

SERIAL NO.: 09/637,614

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NdeI

CATATGCAGGTTTCTGATGTTCCGCGTGACCTGGAAGTTGTTGCTGCGACCCCGACTAGC

MetGlnValSerAspValProArgAspLeuGluValValAlaAlaThrProThrSer

-2 -1 1

10

A

BclI PvuII

PstI BC loop

BsiWI

CTGCTGATCAGCTGGGATGCTCCTGCAGTTACCGTGCGTTATTACCGTATCACGTACGGT

LeuLeuIleSerTrpAspAlaProAlaValThrValArgTyrTyrArgIleThrTyrGly

20

B

30

C

EcoRI

GAAACCGGTGGTAACTCCCCGGTTCAGGAATTCACCTGTACCTGGTTCCAAGTCTACTGCT

GluThrGlyGlyAsnSerProValGlnGluPheThrValProGlySerLysSerThrAla

40

D

50

E

SalI

Bst1107I

ACCATCAGCGGCCTGAAACCGGGTGTGCGACTATACCATCACTGTATACGCTGTTACTGGC

ThrIleSerGlyLeuLysProGlyValAspTyrThrIleThrValTyrAlaValThrGly

60

70

F

FG loop

SacI

XhoI

CGTGGTGACAGCCCAGCGAGCTCCAAGCCAATCTCGATTAACCTACCGTACCTAGTAATC

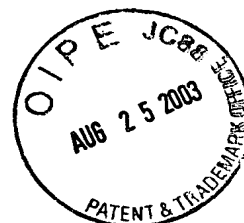
ArgGlyAspSerProAlaSerSerLysProIleSerIleAsnTyrArgThr

80

90

G

FIG. 5



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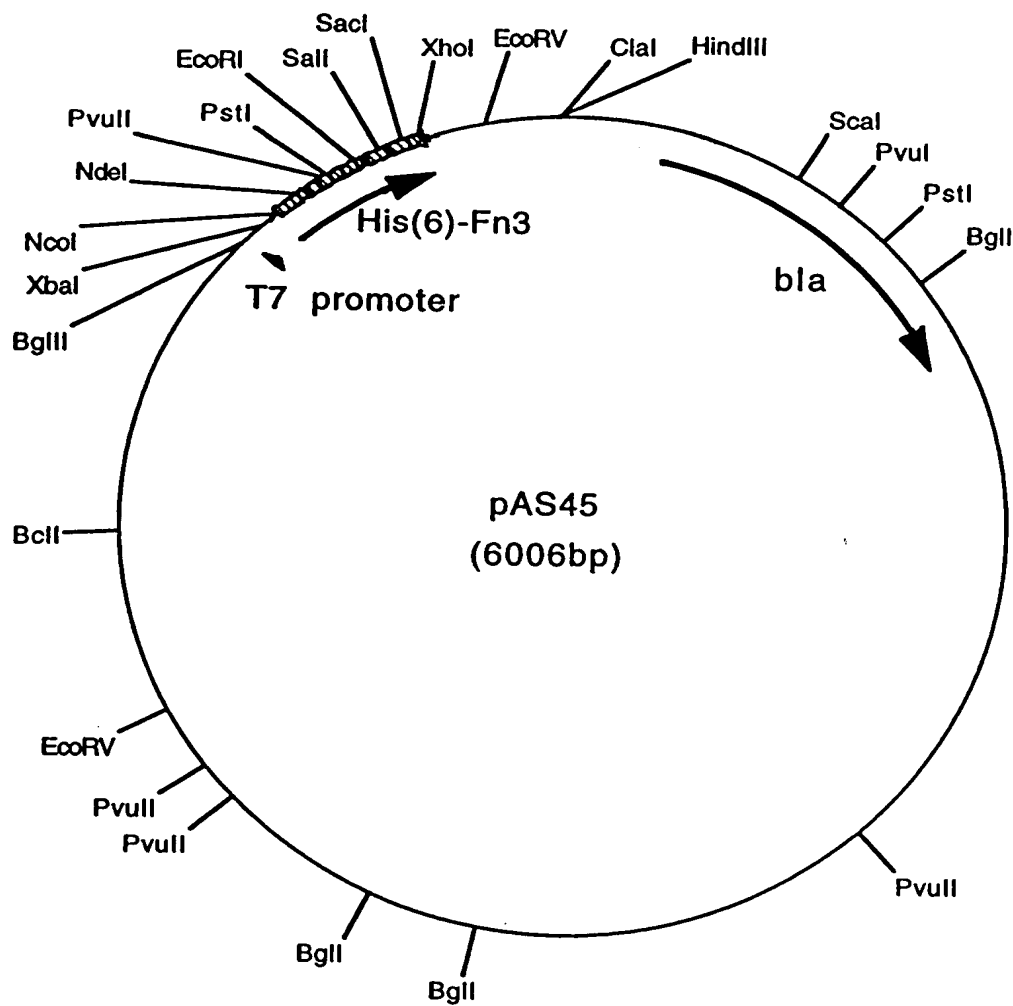
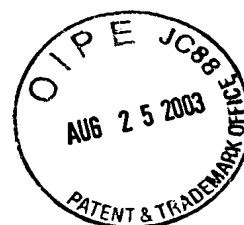


FIG. 6



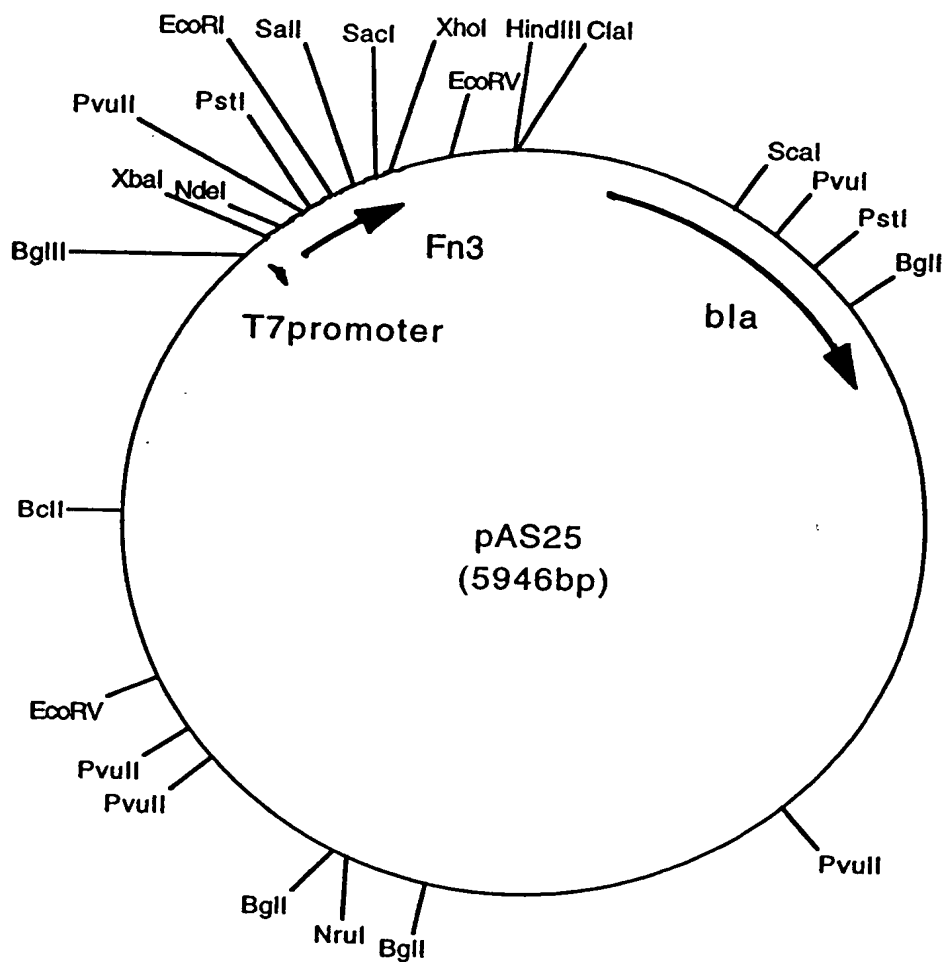


FIG. 7



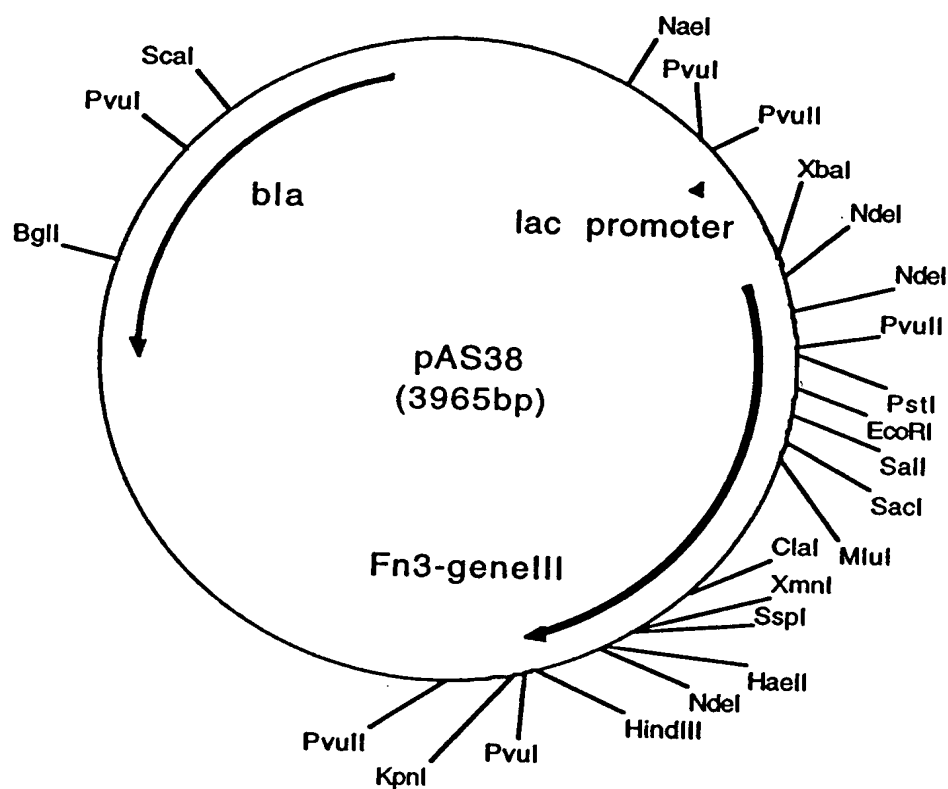


FIG. 8





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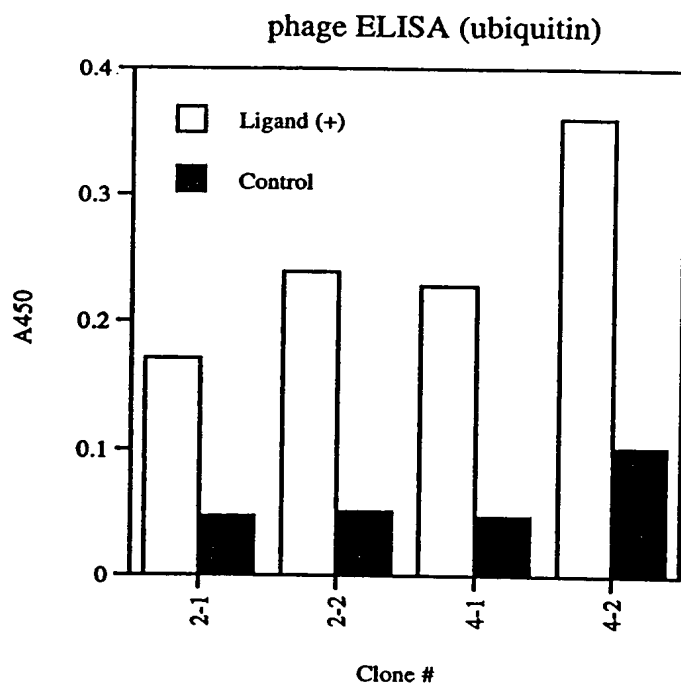


FIG. 9

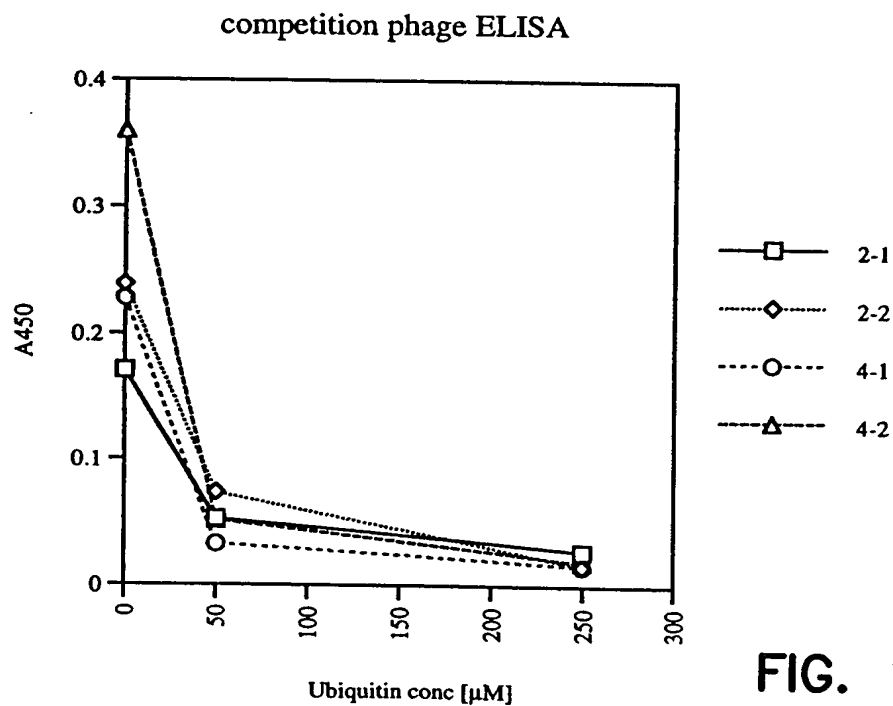
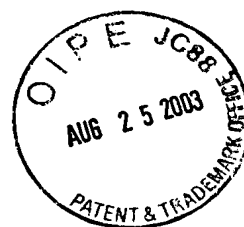


FIG. 10



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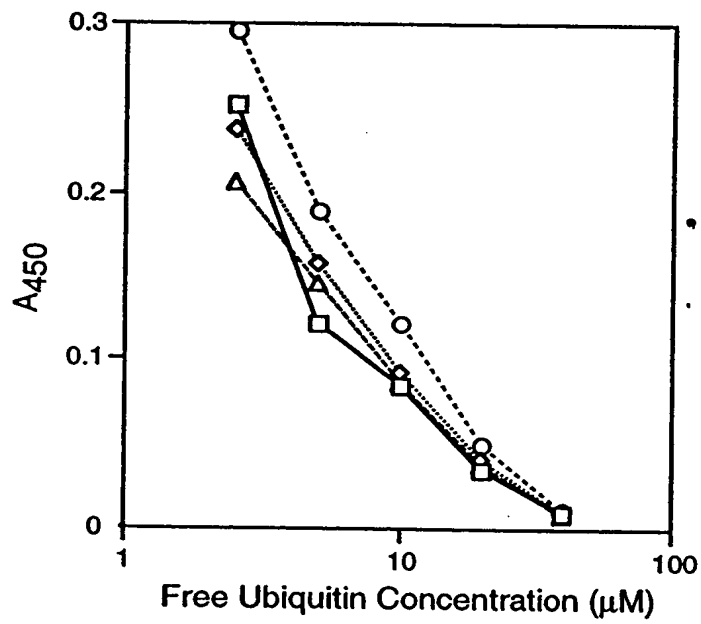
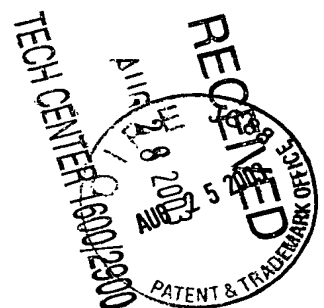


FIG. 11



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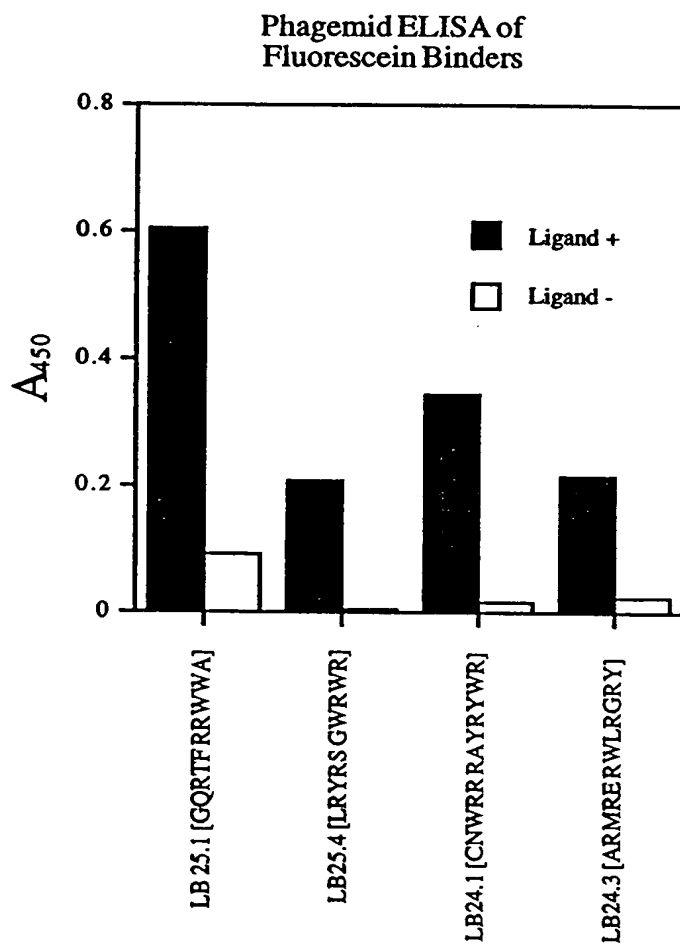
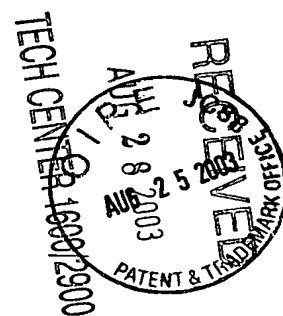


FIG. 12



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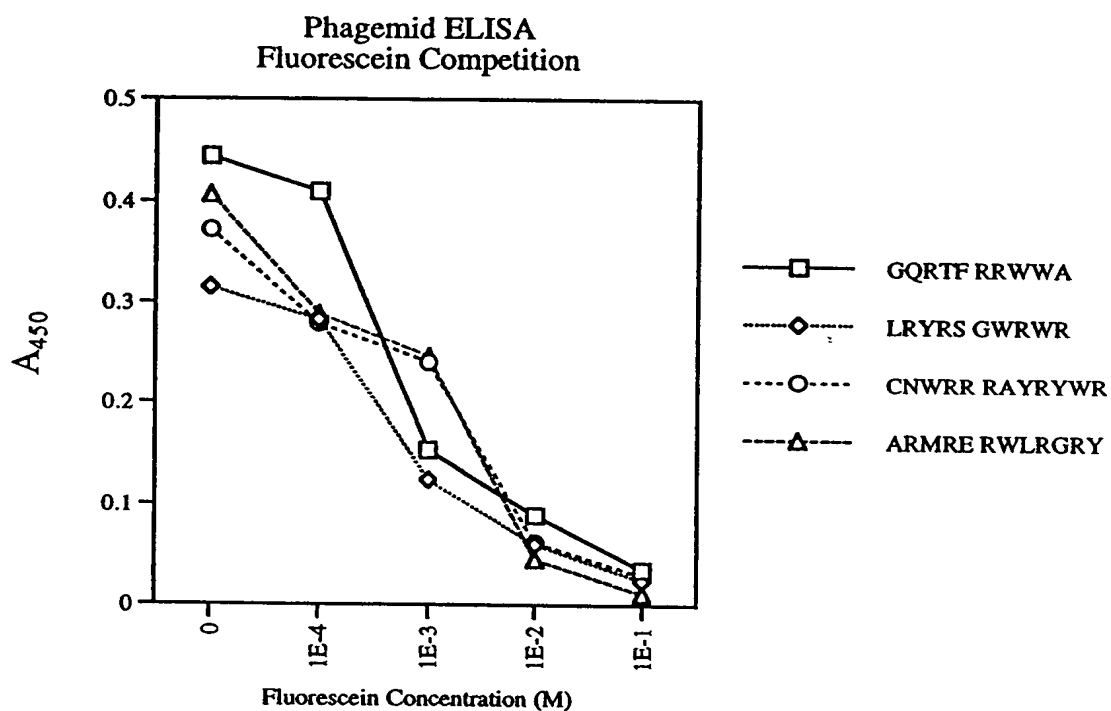
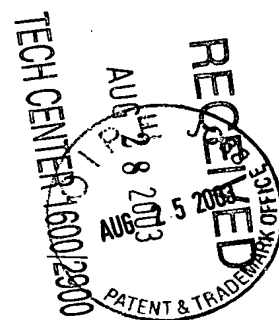


FIG. 13



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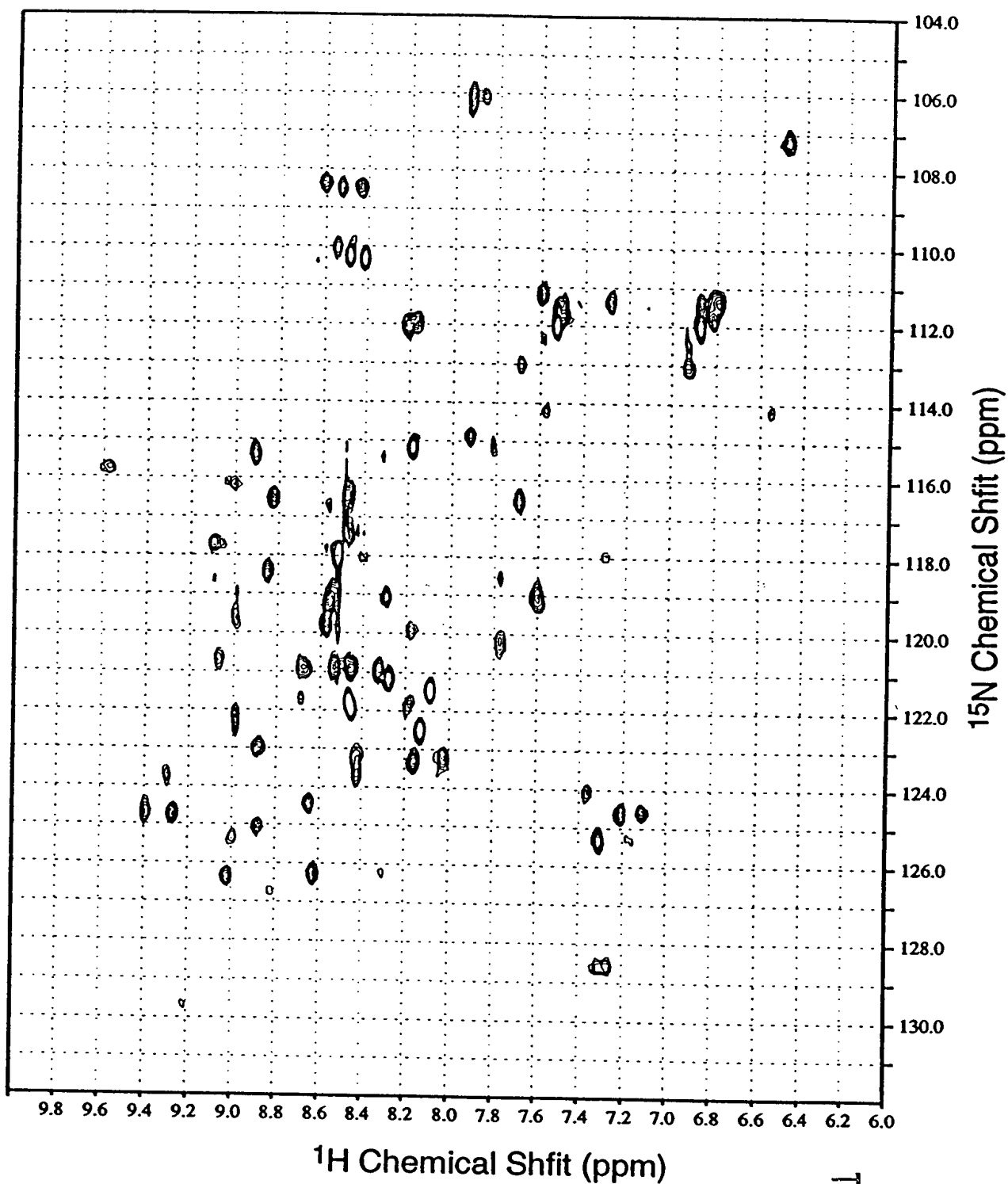
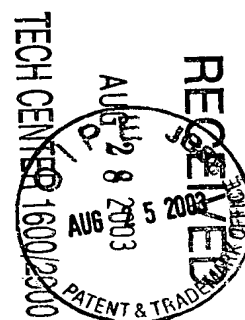


FIG. 14



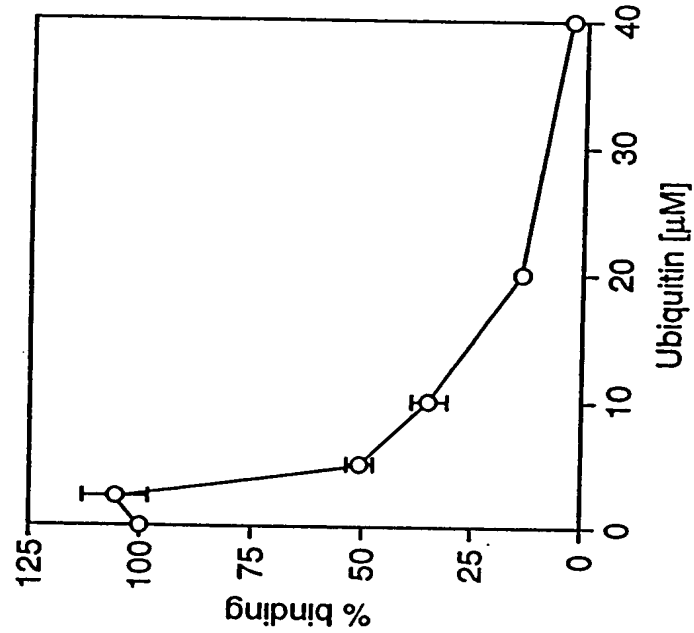


FIG. 15B

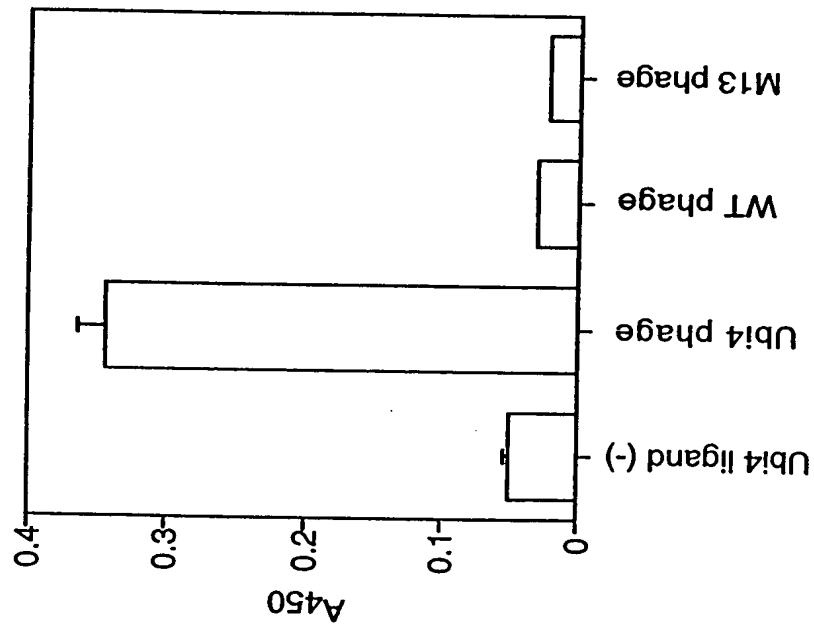
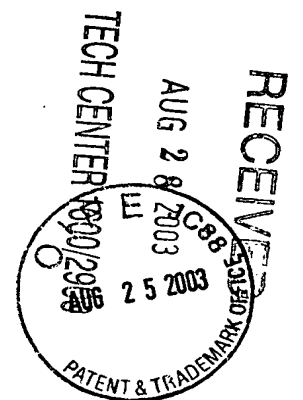


FIG. 15A



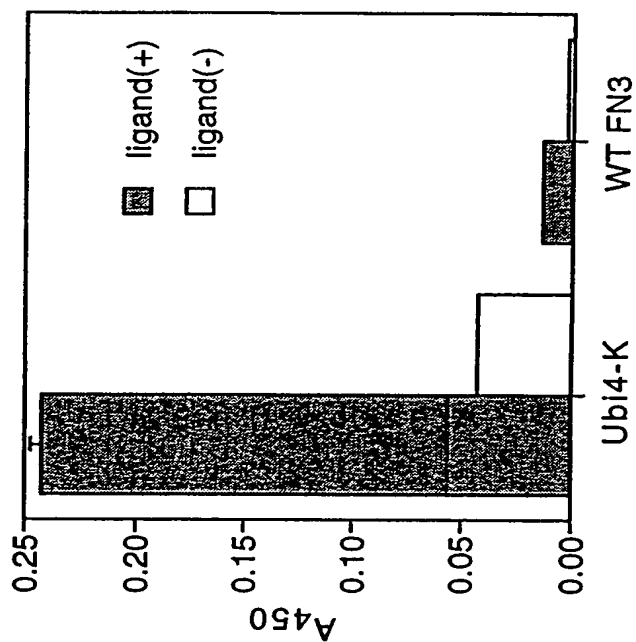


FIG. 15D

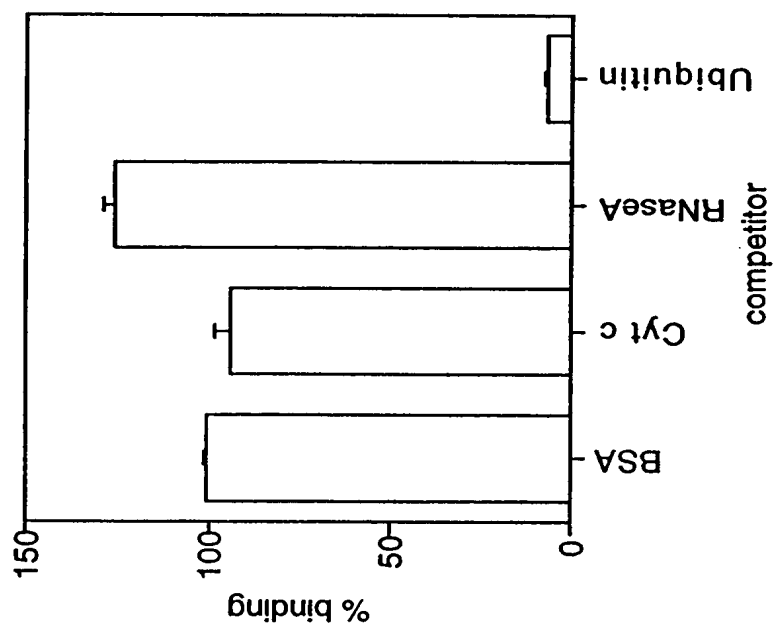
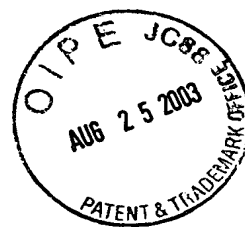


FIG. 15C



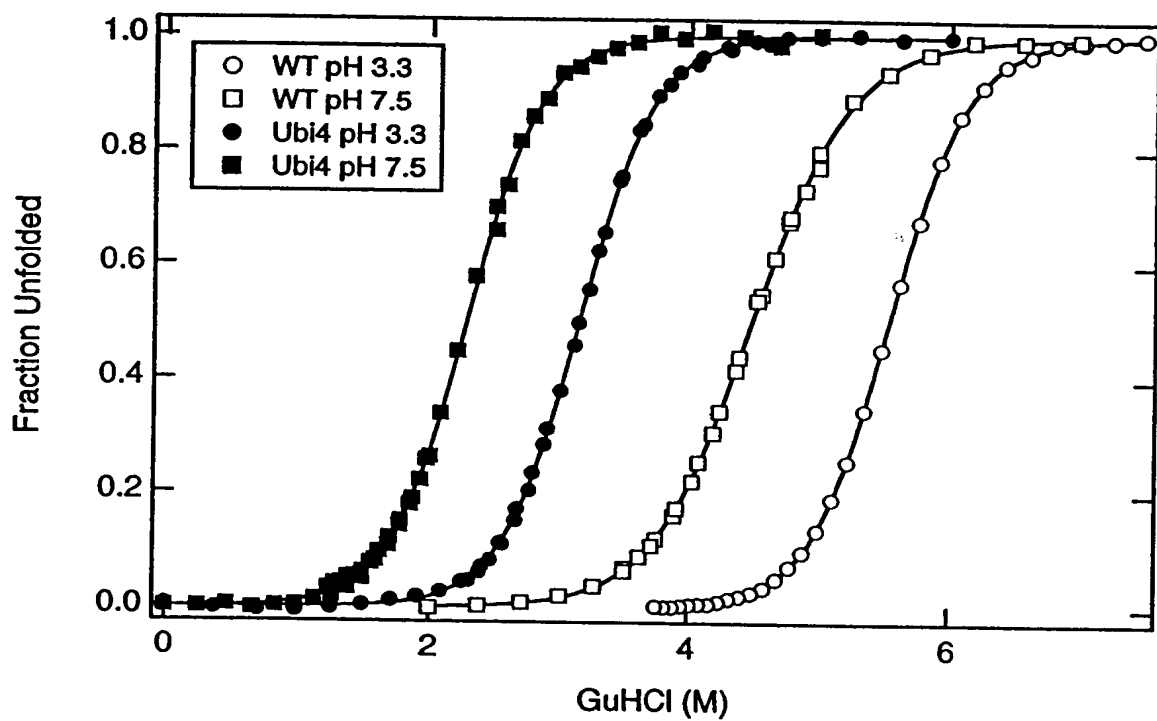
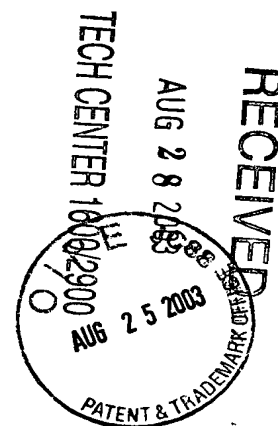


FIG. 16





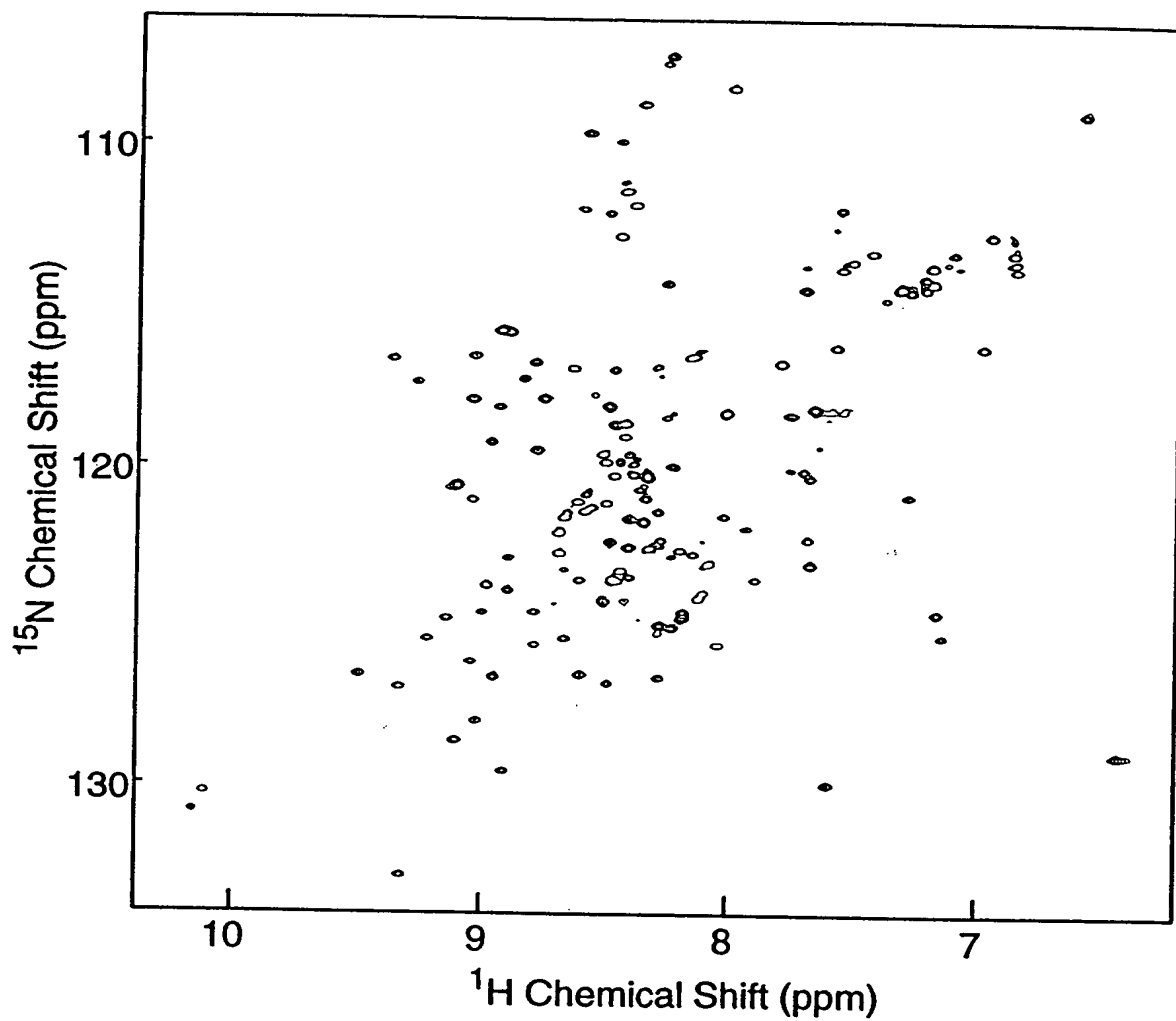
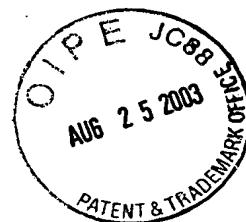


FIG. 17A



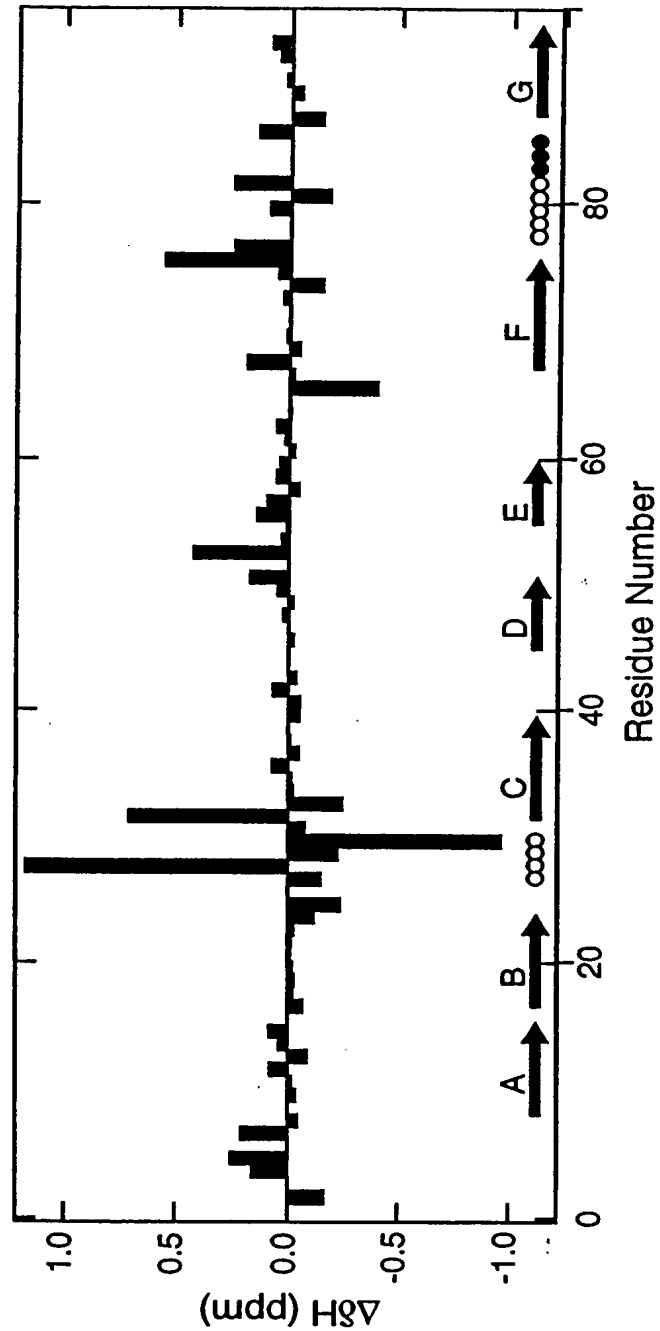
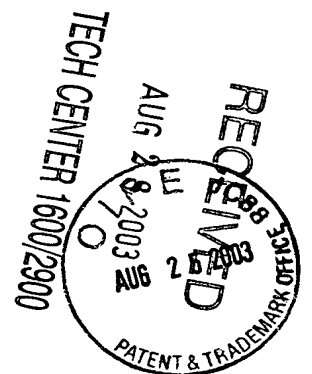
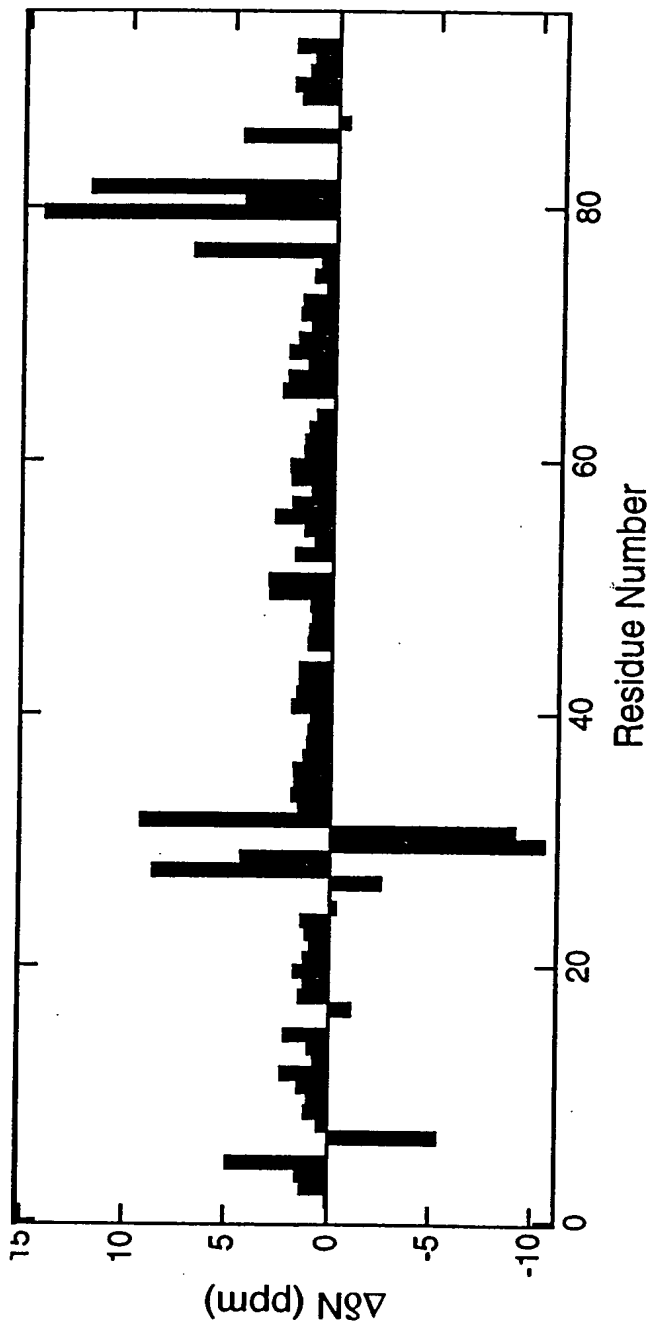


FIG. 17B





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FIG. 17C

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